



QUICK RESPONSE

*Saving life and property through effective licensing, plan review,
and inspection of fire protection systems.*

August 2011

Auxiliary Drain – Wet System

Wet system **auxiliary drains** shall be provided where a change in piping direction prevents drainage of system piping (trapped piping) through the main drain valve. The type of a wet system **auxiliary drain**, its size, and its arrangement depend on the capacity (volume) of trapped piping.

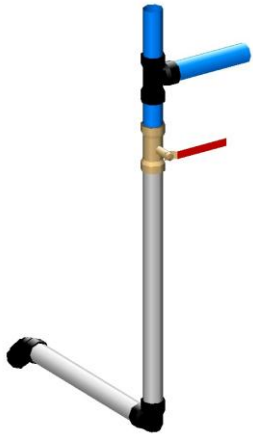


Exhibit 1

Wet system where the capacity of trapped section of pipe is **50 gallons or more**, the **auxiliary drain** shall consist of a valve not smaller than 1 in. piped to an accessible location (**Exhibit 1**).

Wet system where the capacity of trapped section of pipe is **less than 50 gallons and more than 5 gallons**, the **auxiliary drain** shall consist of a valve $\frac{3}{4}$ -inch or larger and a plug (**Exhibit 2**) or a nipple and cap (**Exhibit 3**).

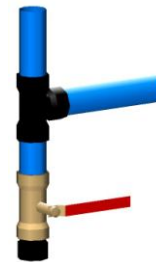


Exhibit 2



Exhibit 3

Wet system where the capacity of trapped sections of pipe is **less than 5 gallons** one of the following arrangements shall be provided:

- (1) A nipple and cap or plug not less than $\frac{1}{2}$ -inch in size. (**Exhibit 4**)
- (2) An **auxiliary drain** shall not be required for trapped sections **less than 5 gallons** where the system piping can be drained by removing a single pendent sprinkler. (**Exhibit 5**)
- (3) Where flexible couplings or other easily separated connections are used, the nipple and cap or plug can be omitted. (**Exhibit 6**)

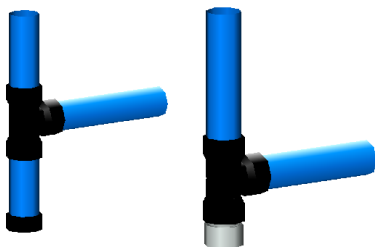


Exhibit 4



Exhibit 5

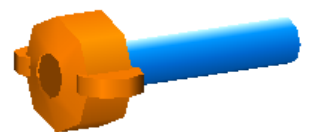


Exhibit 6